

AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A scanning type confocal probe, comprising:  
at least one scanning mirror; and  
a transparent substrate on which said at least one scanning mirror is mounted,  
said transparent substrate being inserted in an optical path of said confocal probe such  
that a light beam passing along the optical path is deflected by said at least one  
scanning mirror.

wherein said at least one scanning mirror comprises a first rotating scanning  
mirror that deflects the light beam in a first predetermined direction, and a second  
rotating scanning mirror that deflects the light beam in a second predetermined direction  
perpendicular to the first predetermined direction, said first rotating scanning mirror and  
said second rotating scanning mirror being mounted on the transparent substrate.

2. (Canceled)

3. (Currently Amended) ~~The scanning type confocal probe according to claim 1~~  
A scanning type confocal probe, comprising:  
at least one scanning mirror; and

a transparent substrate on which said at least one scanning mirror is mounted,  
said transparent substrate being inserted in an optical path of said confocal probe such  
that a light beam passing along the optical path is deflected by said at least one  
scanning mirror,

wherein said at least one scanning mirror includes:

a scanning mirror that deflects the light beam in a first predetermined direction  
and in a second predetermined direction which is perpendicular to the first  
predetermined direction; and

a fixed mirror[[;]],

said scanning mirror and said fixed mirror being mounted on the same  
transparent substrate.

4. (Original) The scanning type confocal probe according to claim 1, further  
including an objective lens, said objective lens and said transparent substrate being  
made of the same optical material.

5. (Original) The scanning type confocal probe according to claim 4, further  
comprising a pin hole that allows light reflected by in-vivo tissues on an object side focal  
plane of said objective lens to pass through and shields light reflected by the tissues on  
portions other than the object side focal plane of said objective lens.

6. (Currently Amended) The scanning type confocal probe according to claim 5,  
which includes further comprising a single mode optical fiber that receives and transmits

light from the tissues via said objective lens, an object lens side end surface of said optical fiber functioning as the pin hole.

7-10. (Canceled)

11. (Currently Amended) An endoscope device, comprising:  
a light source that emits a light beam for illuminating an object to be observed;  
a scanning type confocal probe which includes at least one scanning mirror and a transparent substrate on which said at least one scanning mirror is mounted, said transparent substrate being inserted in an optical path of said confocal probe such that a light beam passing along the optical path is deflected by said at least one scanning mirror, said at least one scanning mirror comprises a first rotating scanning mirror that deflects the light beam in a first predetermined direction, and a second rotating scanning mirror that deflects the light beam in a second predetermined direction perpendicular to the first predetermined direction, said first rotating scanning mirror and said second rotating scanning mirror being mounted on the transparent substrate; and an image reproducing system that reproduces an image of the object using light reflected by the object and passed through said confocal probe.

12. (Canceled)

13. (Currently Amended) ~~The endoscope device according to claim 11~~

An endoscope device, comprising:

a light source that emits a light beam for illuminating an object to be observed;

a scanning type confocal probe which includes at least one scanning mirror and

a transparent substrate on which said at least one scanning mirror is mounted, said

transparent substrate being inserted in an optical path of said confocal probe such that

a light beam passing along the optical path is deflected by said at least one scanning

mirror; and

an image reproducing system that reproduces an image of the object using light  
reflected by the object and passed through said confocal probe,

wherein said at least one scanning mirror includes:

a scanning mirror that deflects the light beam in a first predetermined direction  
and in a second predetermined direction which is perpendicular to the first  
predetermined direction; and

a fixed mirror[[;]].

said scanning mirror and said fixed mirror being mounted on the same  
transparent substrate.

14. (Original) The endoscope device according to claim 11, further including an  
objective lens, said objective lens and said transparent substrate being made of the  
same optical material.

15. (Canceled)

16. (New) The scanning type confocal probe according to claim 3, further including an objective lens, said objective lens and said transparent substrate being made of the same optical material.

17. (New) The scanning type confocal probe according to claim 16, further comprising a pin hole that allows light reflected by in-vivo tissues on an object side focal plane of said objective lens to pass through and shields light reflected by the tissues on portions other than the object side focal plane of said objective lens.

18. (New) The scanning type confocal probe according to claim 17, further comprising a single mode optical fiber that receives and transmits light from the tissues via said objective lens, an object lens side end surface of said optical fiber functioning as the pin hole.

19. (New) The scanning type confocal probe according to claim 14, further comprising a pin hole that allows light reflected by in-vivo tissues on an object side focal plane of said objective lens to pass through and shields light reflected by the tissues on portions other than the object side focal plane of said objective lens.

20. (New) The scanning type confocal probe according to claim 19, further comprising a single mode optical fiber that receives and transmits light from the tissues via said objective lens, an object lens side end surface of said optical fiber functioning as the pin hole.

21. (New) The scanning type confocal probe according to claim 13, further including an objective lens, said objective lens and said transparent substrate being made of the same optical material.

22. (New) The scanning type confocal probe according to claim 21, further comprising a pin hole that allows light reflected by in-vivo tissues on an object side focal plane of said objective lens to pass through and shields light reflected by the tissues on portions other than the object side focal plane of said objective lens.

23. (New) The scanning type confocal probe according to claim 22, further comprising a single mode optical fiber that receives and transmits light from the tissues via said objective lens, an object lens side end surface of said optical fiber functioning as the pin hole.